

What is Claimed is:

1. A paper sheet having on the surface thereof calcium carbonate,  
said calcium carbonate having a maximum mean average size of 200  
nm,  
5 said paper sheet having less than 20 voids per 12.6 in<sup>2</sup> in the 6000<sup>th</sup>  
sheet when tested in a Void Test.
2. The paper sheet of claim 1 wherein said calcium carbonate has a  
maximum mean average size of 100 nm.
3. The paper sheet of claim 1 wherein said calcium carbonate has a  
10 maximum mean average size of 50 nm.
4. The paper sheet of claim 1 having less than 15 voids per 12.6 in<sup>2</sup>.
5. The paper sheet of claim 4 wherein said calcium carbonate has a  
maximum mean average size of 100 nm.
6. The paper sheet of claim 4 wherein said calcium carbonate has a  
15 maximum mean average size of 50 nm.
7. The paper sheet of claim 1 having less than 10 voids per 12.6 in<sup>2</sup>.
8. The paper sheet of claim 7 wherein said calcium carbonate has a  
maximum mean average size of 100 nm.
9. The paper sheet of claim 7 wherein said calcium carbonate has a  
20 maximum mean average size of 50 nm.
10. The paper sheet of claim 1 in which said paper has a Gurley stiffness  
10% greater than a paper not coated with said calcium carbonate.
11. A paper sheet having on the surface thereof calcium carbonate,  
said calcium carbonate having a maximum mean average size of 200  
25 nm,  
said paper sheet having a Gurley stiffness 10% greater than a paper not  
coated with said calcium carbonate.
12. The paper sheet of claim 11 wherein said calcium carbonate has a  
maximum mean average size of 100 nm.
13. The paper sheet of claim 11 wherein said calcium carbonate has a  
30 maximum mean average size of 50 nm.
14. The paper sheet of claim 11 wherein  
said paper sheet has a Gurley stiffness 25% greater than a paper not  
coated with said calcium carbonate.

15. The paper sheet of claim 14 wherein said calcium carbonate has a maximum mean average size of 100 nm.

16. The paper sheet of claim 14 wherein said calcium carbonate has a maximum mean average size of 50 nm.